

SPECIFICATION SHEET



MasterSeries® 860

Reduced Pressure Zone Assemblies

Size: 2½" - 10" (65mm - 250mm)

The FEBCO Master Series® 860 Reduced Pressure Zone Assemblies are designed for health hazard applications.
End connections – Flanged ANSI B16.1 Class 125

Pressure – Temperature

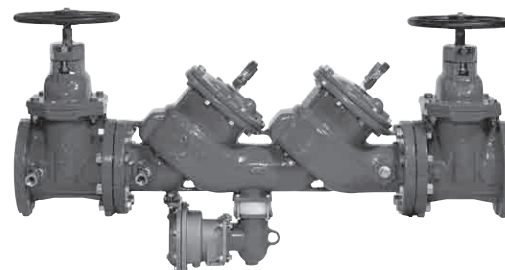
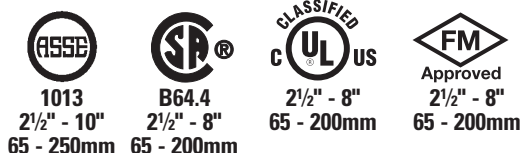
| | |
|-------------------------|-----------------------------|
| Max. Working Pressure: | 175psi (12.1 bar) |
| Hydrostatic Test Press: | 350psi (24.1 bar) |
| Temperature Range: | 32°F to 140°F (0°C to 60°C) |

Materials

| | |
|------------------|---|
| Main Valve Body: | Ductile iron Grade 65-45-12 |
| Coating: | Fusion epoxy coated internal and external AWWA C550 |
| Shutoff Valves: | NRS and OS&Y resilient wedge gate valves AWWA C509 |
| Trim: | Bronze |
| Elastomer Discs: | EPDM |
| Spring: | Stainless steel |
| Clamp: | AWWA C606 (10" only, 250mm) |

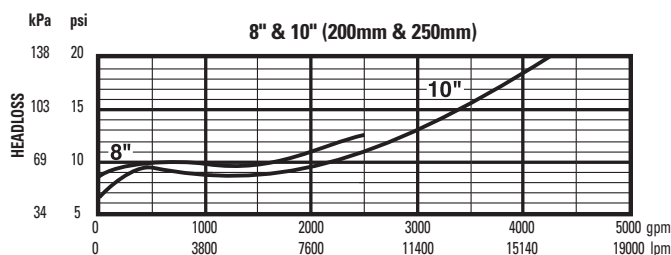
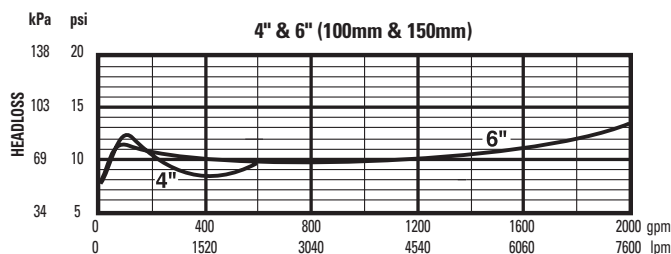
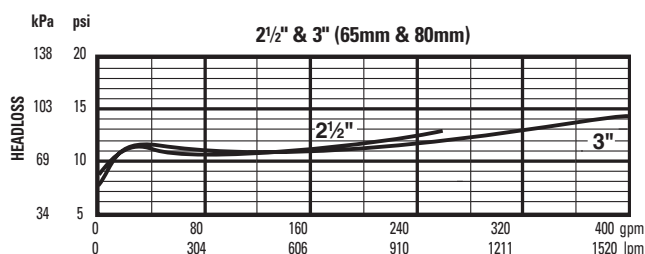
Approvals – Standards

- ANSI/AWWA (C511) - 2½" - 10"
- Approved by the Foundation for Cross-connection Control and Hydraulic Research at the University of Southern California. - 2½" - 8" (65 - 200mm)



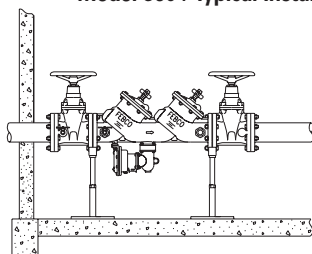
MODEL 860 REDUCED PRESSURE ASSEMBLY

Capacity



Typical Installation

Model 860 / Typical Installation



Job Name _____

Job Location _____

Engineer _____

Approval _____

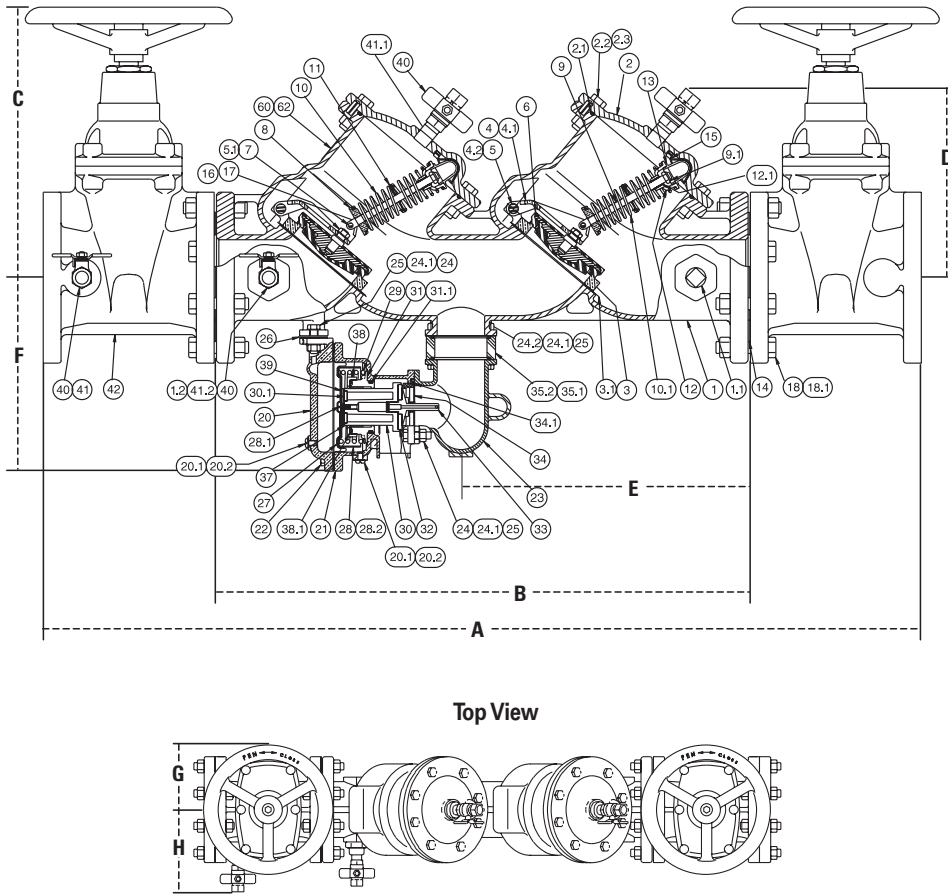
Contractor _____

Approval _____

Contractor's P.O. No. _____

Representative _____

FEBCO product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact FEBCO. FEBCO reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on FEBCO products previously or subsequently sold.



| ITEM | DESCRIPTION | MATERIAL |
|------|--------------------------|---|
| 1 | Body | A536 GR 65-45-12 |
| 1.1 | Pipe Plug | Galv. Stl. |
| 1.2 | Bushing (2 1/2"-4" Only) | Brass |
| 2 | Cover | A536 GR 65-45-12 |
| 2.1 | O-Ring | EPDM ASTM D2000 |
| 2.2 | Cap Screw | Plated Steel |
| 2.3 | Hex Nut | Plated Steel |
| 3 | Seat Ring | B584 Alloy C83600 |
| 3.1 | Gasket | EPDM ASTM D2000 |
| 3.2 | Socket Head Screw | 18-8-SS |
| 3.3 | Washer | 304 SS |
| 3.4 | Elastic Stop Nut | 18-8-SS |
| 4 | Arm | B584 Alloy C83600 |
| 4.1 | Bushing-Swing Pin | Acetal Resin |
| 4.2 | Swing Pin | 304 SS |
| 5 | Retaining Clip | 302 SS |
| 5.1 | Retaining Clip | 302 SS |
| 6 | Check Disk | EPDM Coated GR, 45 Ductile Iron with A276 type 304SS stem |
| 7 | Load Pin | B150 Alloy C61300 |
| 8 | Lvr Spring Retrnr | B584 Alloy C83600 |
| 9 | Spring Stem | 304 SS |
| 9.1 | Elastic Stop Jam Nut | 18-8 SS |
| 10 | Spring | A313 Type 631 SS |
| 10.1 | Spring 2nd Check | A313 Type 631 SS |
| 10.2 | Spring Shim 2nd Check | Acetal Resin |
| 11 | Spring Guide | B130 Alloy C22000 |
| 12 | Upr Spring Retrnr | B584 Alloy C83600 |
| 12.1 | Bushing-Spr. Stem | Acetal Resin |
| 13 | Pivot Bearing | B585 Alloy C83600 |
| 14 | Flange Gasket | Rubber/Fabric |
| 15 | Bearing Socket | Acetal Resin |
| 16 | Hex Jam Nut | 18-8 SS |
| 17 | Washer | 302 SS |
| 18 | Flange Nut | Plated Steel |
| 18.1 | Flange Nut | Plated Steel |
| 20 | R.V. Cover | B584 Alloy C83600 |
| 20.1 | Bleed Screw | 18-8 SS |
| 20.2 | Gasket | HDPE |
| 21 | R.V. Body | B584 Alloy C83600 |
| 22 | Cover Bolt | 18-8 SS |
| 23 | Elbow | A536 GR 65-45-12 |
| 24 | RV Mtg Bolt | Plated Steel |
| 24.1 | Washer | Plated Steel |
| 25 | RV Mtg Nut | Plated Steel |
| 26 | Gasket | EPDM |
| 27 | Lrg. Diaphragm | Nitrile ASTM D2000 |
| 28 | Button | A240 304 SS |
| 28.1 | Flow Washer | Acetal Resin |
| 29 | RV Spring | A313 Type 302 SS |
| 30 | RV Stem | Acetal Resin |
| 31 | Main Guide | B584 Alloy C83600 |
| 31.1 | Main Guide O-Ring | FDA EPDM |
| 32 | Seat Disc | EPDM AST D2000 |
| 33 | Lower Guide | Acetal Resin |
| 34 | Seat Ring | B584 Alloy C83600 |
| 34.1 | O-ring | FDA EPDM |
| 35.1 | O-Ring | EPDM ASTM D2000 |
| 35.2 | Extension | Acetal Resin |
| 37 | Sm. Diaphragm | Nitrile ASTM D2000 |
| 38 | Retainer | B584 Alloy C83600 |
| 38.1 | Slip Ring | Acetal Resin |
| 39 | Flow Washer | Acetal Resin |
| 40 | Ball Valve | B584 Alloy C84400 |
| 41 | Nipple | Brass |
| 41.1 | Nipple | Brass |
| 41.2 | Nipple | Brass |
| 42 | Gate Valve (NRS) | AWWA C509 |
| 60 | Identification Plate | B36 Alloy C26000 |
| 62 | Drive Screw | Stainless Steel |
| 70 | Clamp | AWWA C606 (10" Only) |

Dimensions – Weight

Size: 2 1/2" - 10" (65 - 80mm)

| SIZE (DN) | | DIMENSIONS | | | | | | | | | | | | WEIGHT | | | | | | | |
|-----------|-----|------------|------|--------|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|------|------|------|-------|
| | | A | | B | | C | | D | | E | | F | | G | | H | | NRS | | OS&Y | |
| in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kgs. | lbs. | kgs. |
| 2 1/2 | 65 | 40 3/4 | 1035 | 25 1/2 | 648 | 12 5/8 | 321 | 10 | 254 | 12 7/8 | 327 | 10 | 254 | 4 1/2 | 114 | 7 7/8 | 181 | 219 | 99 | 223 | 101.2 |
| 3 | 80 | 41 7/8 | 1064 | 25 5/8 | 651 | 12 7/8 | 327 | 10 | 254 | 13 | 330 | 10 | 254 | 4 1/2 | 114 | 7 3/8 | 187 | 231 | 105 | 233 | 105.7 |
| 4 | 100 | 46 1/4 | 1175 | 28 | 711 | 14 3/8 | 365 | 10 1/8 | 257 | 15 1/8 | 384 | 10 1/8 | 257 | 5 1/2 | 140 | 8 1/8 | 206 | 317 | 144 | 334 | 151.5 |
| 6 | 150 | 56 | 1422 | 34 3/4 | 883 | 18 1/8 | 479 | 12 3/4 | 324 | 20 3/4 | 527 | 11 1/8 | 283 | 6 1/2 | 165 | 9 7/8 | 251 | 481 | 218 | 516 | 234.1 |
| 8 | 200 | 65 | 1651 | 41 3/4 | 1061 | 23 1/2 | 570 | 15 5/8 | 397 | 26 7/8 | 683 | 12 1/4 | 311 | 7 | 178 | 11 1/8 | 283 | 734 | 333 | 796 | 361.1 |
| 10 | 250 | 72 5/8 | 1845 | 46 3/8 | 1178 | 27 1/2 | 699 | 15 5/8 | 397 | 28 1/4 | 718 | 12 3/8 | 314 | 9 | 229 | 12 3/8 | 314 | 946 | 429 | 1008 | 457.2 |

Note: Dimensions shown are nominal. Allowances must be made for normal manufacturing tolerances.

Note: The gap drain is not designed to catch the maximum discharge possible from the relief valve. The installation of FEBCO air gap with the drain line terminating above a floor drain will handle any normal discharge or nuisance spitting through the relief valve. However, floor drain size may need to be designed to prevent water damage caused by a catastrophic failure condition. Do not reduce the size of the drain line from the air gap fitting.



A Watts Water Technologies Company



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